SoulShift

SoulShift – Educational Q&A Platform

General Questions

Practice Questions

Q1. What is the time complexity of traversing a binary tree?

A. O(n)
B. O(log n)
C. O(n log n)
D. O(1)

Solution: Traversing a binary tree requires visiting each node once, leading to a time complexity of O(n).

Q2. What is the time complexity of merge sort?

A. O(n)
B. O(n log n)
C. O(n^2)
D. O(log n)

Solution: Merge sort divides the array and merges sorted halves, resulting in a time complexity of O(n log n).